1642

PATENT

Attorney Docket No. UCSD-04870

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kenneth W. Wood *et al.*
Serial No.: 09/724,584 Group No.: 1642
Filed: 11/28/00 Examiner:
Entitled: **PLUS END-DIRECTED MICROTUBULE MOTOR REQUIRED FOR CHROMOSOME CONGRESSION**

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Dated: September 10, 2001 By: James R. Davenport

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449 for filing in the U.S. Patent and Trademark Office.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. **08-1290**. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Dated: September 10, 2001

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The citations listed below may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. § 1.56 and § 1.97. The Examiner is requested to make these citations of official record in this application.

Applicants note that the present application is a Continuation of U.S. Patent Application Serial No. 09/150,867, filed September 10, 1998, which claims benefit under 35 U.S.C. § 199(e) to Provisional Patent Application Serial No. 60/058,645, filed September 11, 1997. In accordance with 37 C.F.R. § 1.98(d), copies of the citations listed as references 1-14 on the enclosed PTO-1449 are **not** provided since they were previously submitted to the Office in the earlier U.S. Patent Application Serial No. 09/150,867 (our file UCSD-04734), which is relied upon for an earlier filing date. In particular, citations listed as references 1-14 were mailed to the Office on December 21, 1998 and December 23, 1998, in support of the prior U.S. Patent Application Serial No. 09/150,867. Copies of the citations listed as references 15 and 16 are attached herein.

The following printed publications are referenced in the parental U.S. Patent Application Serial No. 09/150,867:

- Brown *et al.*, "Cyclin-like accumulation and loss of the putative kinetochore motor CENP-E results from coupling continuous synthesis with specific degradation at the end of mitosis," *J Cell Biol* 125:1303-12 [1994];
- Duesbery *et al.*, "CENP-E is an essential kinetochore motor in maturing oocytes and is masked during mos-dependent, cell cycle arrest at metaphase II," *Proc Natl Acad Sci U S A* 94:9165-7 [1997];
- Hyman and Mitchison, "Two different microtubule-based motor activities with opposite polarities in kinetochores," *Nature* 351:206-11 [1991];
- Kodama *et al.*, "The initial phosphate burst in ATP hydrolysis by myosin and subfragment-1 as studied by a modified malachite green method for determination of inorganic phosphate," *J Biochem (Tokyo)* 99:1465-72 [1986];
- Liao *et al.*, "Mitotic regulation of microtubule cross-linking activity of CENP-E kinetochore protein," *Science* 265:394-8 [1994];
- Lombillo *et al.*, "Antibodies to the kinesin motor domain and CENP-E inhibit microtubule depolymerization-dependent motion of chromosomes in vitro," *J Cell Biol* 128:107-15 [1995];
- Mitchison and Kirschner, "Properties of the kinetochore in vitro. II. Microtubule capture and ATP-dependent translocation," *J Cell Biol* 101:766-77 [1985];
- Rattner *et al.*, "The centromere kinesin-like protein, CENP-E. An autoantigen in systemic sclerosis," *Arthritis Rheum* 39:1355-61 [1996];
- Sakowicz *et al.*, "A marine natural product inhibitor of kinesin motors," *Science* 280:292-5 [1998];
- Stewart *et al.*, "Direction of microtubule movement is an intrinsic property of the motor domains of kinesin heavy chain and *Drosophila* ncd protein," *Proc Natl Acad Sci U S A* 90:5209-13 [1993];
- Thrower *et al.*, "Mitotic HeLa cells contain a CENP-E-associated minus end-directed microtubule motor," *EMBO J* 14:918-26 [1995];

- Wood *et al.*, "CENP-E is a plus end-directed kinetochore motor required for metaphase chromosome alignment," *Cell* 91:357-66 [1997];
- Yen *et al.*, "CENP-E, a novel human centromere-associated protein required for progression from metaphase to anaphase," *EMBO J* 10:1245-54 [1991]; and
- Yen *et al.*, "CENP-E is a putative kinetochore motor that accumulates just before mitosis," *Nature* 359:536-9 [1992].

Applicants also submit the following publications which were cited in the International Search Report of the related International Application No. PCT/US98/19231:

- Gordon *et al.*, "Overexpression of the kinetochore localization domain of CENP-E causes two distinct dominant negative phenotypes," *Mol Biol Cell* 7 Supplement:565a [1996]; and
- Wood *et al.*, "Characterization of a *Xenopus* homologue of centromere-associated protein-E (CENP-E)," *Mol Biol Cell* 6 Supplement:361a [1995].

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: September 10, 2001

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